



Typhoon[®]

HIGH SPEED SURFACE AERATOR



High Speed Surface Aerators that provide high oxygen transfer rate, quality and long-lasting performance.

Featuring a high efficiency design, the TYPHOON Aerator produces high pumping rates with a low trajectory for intense air-to-water mixing, resulting in excellent oxygen transfer rates.

TYPHOON aerators feature:

- 304 or 316 (optional) stainless steel construction
- Explosion proof, chemical duty motors
- Archimedes type centrifugal impeller design
- Direct drive aerator, no gear boxes
- High oxygen transfer and flat spray pattern

The high velocity spray creates maximum surface contact and water turbulence, which results in the highest possible oxygen transfer and mixing performance.

Principle of Operation

Float mounted on the water surface, the TYPHOON Aerator submerged impeller rotates and draws water up through the intake cone and projects it outward, above water line. The fine droplet spray causes low trajectory intense air-to-water mixing, resulting in excellent oxygen transfer.

Extensive Applications

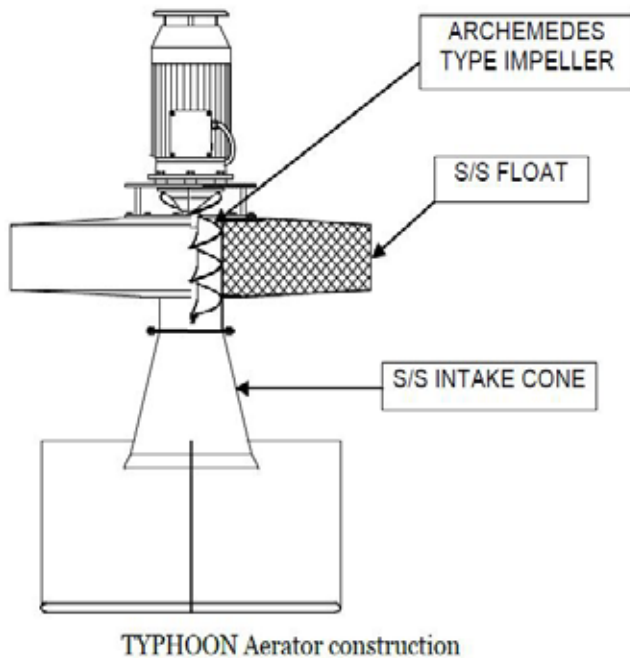
TYPHOON High Speed Surface Aerators add oxygen and mixing in a wide range of applications including:

- Wastewater Treatment
 - Aerated Lagoons
 - Activated Sludge Basins
 - Equalization Basins
 - Sequencing Batch Reactors
- High Rate Aeration
- Leachate Treatment
- Supplemental Aeration

Robust Construction

The TYPHOON Aerator utilizes an Archimedes type impeller. Due to a special design, the Archimedes type impeller provides unmatched durability and is less prone to clogging than the marine type impellers. The Archimedes type impeller has much less blade edge surface which results in smooth operation and low maintenance cost.

To ensure an extremely long life, all motors are watertight, feature a cast iron frame, oversized bearings, epoxy or triple impregnated windings and thermal probe protection. Motors are explosion proof, chemical duty, and come in a range of 2HP (1.5kW) up to 150HP (100 kW). Floats are fabricated of 304 or 316 stainless steel. All floats are foam filled with water resistant closed cell polymer foam.



Efficiency for Industry

The TYPHOON Aerator durable construction provides a dependable and economical solution in a wide range of industries such as:

- Pulp and Paper Mill
- Chemical Processing
- Dairies
- Food & Beverage



Easy Installation, Low Maintenance

The TYPHOON Aerator can be mounted with mooring cables (3 or 4 point mooring). Standard mooring attachments ensure stability and eliminate any potential flexing or twisting stress. The unit can be installed in applications with fluctuating water levels by utilizing a guide rail system. The Fluence high speed surface aerator does not have to be taken out of the water for regular maintenance. The only regular maintenance procedure required is the annual application of grease to the motor bearing.

Aeration Knowledge, Wide Range of Products

Fluence is your aeration expert. We offer all major wastewater aeration technologies and the expertise to help you select and apply the equipment best suited for your application. Let our technical experts assist you in proper sizing, layout, and operation of your aeration system.

About Fluence Corporation

Fluence is a leader in the decentralized water, wastewater and reuse treatment markets, with its pre-engineered, standardized Smart Products Solutions, including Aspiral™, NIROBOX™ and SUBRE. Fluence offers an integrated range of services across the complete water cycle, from early stage evaluation, through design and delivery to ongoing support and optimization of water related assets, as well as Build Own Operate Transfer (BOOT) and other project finance solutions. With established operations in North America, South America, the Middle East, Europe and China, Fluence has experience operating in over 70 countries worldwide and enables businesses and communities worldwide to maximize their water resources.